

IT 314

Software Engineering

SPRINT 1 – USER CONTROLLER MUTATION TESTING

Fork & Feast

Group 28

> Tool Used:

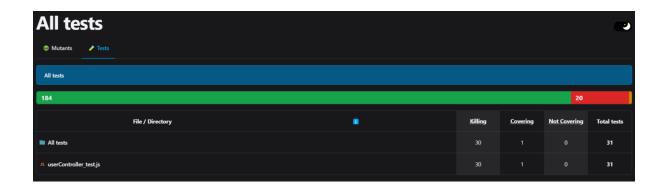
Stryker-mutator/mocha-runner @8.6.0

Link to the source code: <u>userController</u>

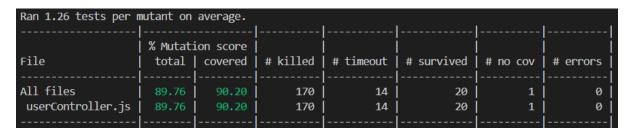
Link to the test file: <u>userController_test</u>

> Test Report:

```
100% (elapsed: <1m, remaining: n/a) 205/205 Mutants tested (20 survived, 15 timed out
Mutation testing
All tests/userController test.js
 ✓ Auth Controller signup post should return 409 if user already exists (killed 5)
 √ Auth Controller signup post should return 400 for an invalid email domain (killed 11)
 ✓ Auth Controller signup_post should return 401 if passwords do not match (killed 11)
 ✓ Auth Controller signup_post should handle error when saving user fails (killed 5)
 ✓ Auth Controller signup_post should handle error when sending confirmation email fails (killed 3)
 ✓ Auth Controller forgotPassword should return 401 when owner tries to use customer route (killed 7)
  \checkmark Auth Controller forgotPassword should return 401 when customer tries to use owner route (f killed~1)
  / Auth Controller forgotPassword should return 401 for unregistered email (killed 4)
  √ Auth Controller forgotPassword should handle error when creating new token (killed 9)
 ✓ Auth Controller forgotPassword should handle nodemailer transport creation error (killed 1)
  ✓ Auth Controller login_post should log in the user with valid credentials (killed 15)
  ✓ Auth Controller login_post should return 403 for unverified email (killed 4)
  √ Auth Controller login_post should return 401 for invalid email (killed 4)
  ✓ Auth Controller login post should return 401 for invalid password (killed 4)
  √ Auth Controller login_post should return 401 for mismatched user type (killed 4)
  ✓ Auth Controller login_post should handle database errors during login (killed 2)
  ✓ Auth Controller resetPassword should reset the password for a valid token (killed 10)
 ✓ Auth Controller resetPassword should return 404 for invalid token (killed 4)
  ✓ Auth Controller resetPassword should return 401 when no password provided (killed 4)
  ✓ Auth Controller resetPassword should return 400 when user not found (killed 4)
  √ Auth Controller resetPassword should handle error when saving new password (killed 2)
 ✓ Auth Controller confirmEmail should redirect to login page for valid token (killed 14)
  ✓ Auth Controller confirmEmail should handle invalid token (killed 3)
  ✓ Auth Controller confirmEmail should handle non-existent user (killed 4)
  √ Auth Controller confirmEmail should redirect customer to customer login page (killed 2)
 √ Auth Controller sendresetpasswordmail should handle email sending error with proper error check (killed 10)
 ✓ Auth Controller sendresetpasswordmail should properly log success message with response info (killed 3)
 ✓ Auth Controller sendresetpasswordmail should include correct mail options (killed 5)
   Auth Controller sendresetpasswordmail should handle sendMail errors correctly (covered 16)
 √ Auth Controller sendConfirmationEmail should send email with correct options (killed 9)
  Auth Controller errorHandle should return default message when error message is empty (killed 5)
```



➤ Coverage Report:





Link to the test file: Coverage Report